

What is claimed is:

1.

A voice sound transmitting unit having the advantage of connectivity, the unit comprising:
an earpiece adapted to be inserted into the external auditory canal of the user and having one or more sensors adapted to convert vibrations of voice sound information to electrical signals;
a transmitter operatively connected with the speech processor and adapted to receive the electrical signals for transmission; and
a cradle including a receiver adapted to receive a transmission from the transmitter and convert the transmission into electrical signals, the cradle including a connector operatively connected to the receiver and adapted to link the receiver to a host device.

2.

The voice sound transmitting apparatus of claim 1 wherein the cradle further includes a power source.

3.

The voice sound transmitting apparatus of claim 1 wherein the cradle further includes electromagnetic shielding.

4.

The voice sound transmitting apparatus of claim 1 wherein the cradle further includes antennae.

5.

The voice sound transmitting apparatus of claim 1 wherein the host device is a cellular telephone.

6.

The voice sound transmitting apparatus of claim 1 wherein the host device is a computer.

7.

The voice sound transmitting apparatus of claim 1
wherein the host device is a personal digital assistant.

8.

The voice sound transmitting apparatus of claim 1
wherein the connector is a serial connector.

9.

The voice sound transmitting apparatus of claim 1
wherein the connector is a parallel connector.

10.

The voice sound transmitting apparatus of claim 1
wherein the connector is a headphone-jack type connector.

11.

A voice sound transmitting system having the
advantage of connectivity, the voice sound transmitting
apparatus comprising:
an earpiece adapted to be inserted into the external auditory
canal of the user and having one or more sensors adapted
to convert vibrations of voice sound information to
electrical signals;
a cradle adapted for receiving a host device, said cradle
including a connector operatively linking the cradle
with the host device; and
a linkage operatively connecting the cradle to the earpiece.

12.

The system of claim 12 wherein the linkage is a wireless
linkage.

13.

The system of claim 12 wherein the linkage is a hard-
wired linkage.

14.

The system of claim 13 wherein the wireless linkage uses
a radio frequency transmission.

15.

The system of claim 13 wherein the wireless linkage uses an infrared beam for transmission.

16.

The system of claim 12 wherein the earpiece does not occlude the external auditory canal.

17.

A method of transmitting voice sound information comprising:
sensing the voice sound vibrations of the user through an earpiece adapted to be inserted into the external auditory canal of the user, the earpiece having one or more sensors adapted to convert the voice sound vibrations to electrical signals;
transmitting the voice sound information over a linkage;
receiving the voice sound information passed through the linkage on a cradle, the cradle being operatively connected to a host device.

18.

The method of claim 17 wherein the earpiece does not occlude the external auditory canal of the user.

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